



Advanced Telematics

Telematics Control Unit

AT-TCU-1-S-100

Reliable Telematics for Agricultural and Off-Highway Vehicles



Reliable, Secure & Efficient



Engineered for Agricultural and Off-Highway Vehicles

Purpose-built telematics platform for tractors and farming equipment, validated through OEM DVP programs to ensure reliable performance in demanding field conditions.



Advanced Security Architecture

Integrated TLS 1.2 encryption with external hardware security module safeguards vehicle data and ensures trusted communication across connected systems.



Seamless OTA Firmware Management

Over-the-air firmware updates via HTTPS and CAN enable efficient device maintenance, continuous improvement, and long-term deployment scalability.

AE-TCU 4G Series



Advanced
Telematics



Built for rugged agricultural deployments with reliable connectivity, advanced I/O capability, and seamless integration with vehicle systems.



Cat1 + 2G
fallback
connectivity



BLE enabled
integration



Ruggedized IP67
waterproof design



Field-proven
reliability

Parameters	Specifications	Parameters	Specifications
Operating Voltage	9-16V	Communication Protocol	CAN 2.0, BLE 4.2
Nominal voltage	12V	Memory	64MB / 128MB / 256MB Configurable
Device Sleeping Current	<2mA	Connector	48-Pin Automotive Connector
Device Normal Current	<100mA	Firmware Update Options	OTA - HTTPS, CAN
Sim Card	Esim	GNSS Antenna	No
IP rating	IP6K9K	GNSS Support	GPS / BeiDou
Input	1 Ignition, 6 Digital, 2 Analog	Cloud Protocol	TCP/MQTT
Output	2 Digital Output	Modem	Cat1 with 2G fallback - TLS 1.2
Internal Battery Charger	PP		
In-built Battery	PP		

Empowering the Telematics Ecosystem

Complete telematics development and manufacturing, including system design, hardware engineering, validation, and high-volume production, backed by dedicated customer support.

Let's Co-Create the Future of Mobility.

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